

Appendix A: Sample Exemplary Schema To Organize EPG Metadata To Support

Multi-Axis TV Navigation

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema                                xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xs:element name="actor">
    <xs:complexType>
      <xs:attribute name="name" type="xs:string" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="axis">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="programs"/>
      </xs:sequence>
      <xs:attribute name="name" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="actor_axis"/>
            <xs:enumeration value="episode_axis"/>
            <xs:enumeration value="director_axis"/>
            <xs:enumeration value="rating_axis"/>
            <xs:enumeration value="alphabetical_axis"/>
            <xs:enumeration value="airing_date_axis"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
  <xs:element name="id" type="xs:string"/>
  <xs:element name="program">
    <xs:complexType>
      <xs:sequence>
        <xs:element                                ref="actor"                                minOccurs="0"
          maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="id" type="xs:string" use="required"/>
      <xs:attribute name="title" type="xs:string" use="required"/>
      <xs:attribute name="description" type="xs:string" use="required"/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

```

1      <xs:attribute name="rating" type="xs:string"/>
2      </xs:complexType>
3  </xs:element>
4  <xs:element name="program_info">
5      <xs:complexType>
6          <xs:sequence>
7              <xs:element ref="programs"/>
8              <xs:element ref="axis" maxOccurs="unbounded"/>
9          </xs:sequence>
10         </xs:complexType>
11 </xs:element>
12 <xs:element name="programs">
13     <xs:complexType>
14         <xs:choice>
15             <xs:element ref="program" maxOccurs="unbounded"/>
16             <xs:element ref="id" maxOccurs="unbounded"/>
17         </xs:choice>
18     </xs:complexType>
19 </xs:element>
20 </xs:schema>
21
22
23
24
25

```